

KILAUEA CRUSHERS, INC.

Ridge Plant

Reclamation Plan

**SUBMITTED TO THE STATE MINE INSPECTOR'S OFFICE FOR REVIEW
AND APPROVAL**

**IN ACCORDANCE WITH ARIZONA REVISED STATUTE TITLE 27-
CHAPTER 6 STATE MINE INSPECTOR AGGREGATE MINED LAND
RECLAMATION**

Administrative Information

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Reclamation Statement of Responsibility

Kilauea Crushers, Inc. assumes responsibility for the reclamation of surface disturbances that are attributable to the aggregate mining unit. All areas that have been disturbed at the site will be reclaimed to a safe and stable condition when mine operations conclude.



Signature



Title



Current Ownership and Land Use

The property is currently owned by Maughan Revocable Trust of 2007, the current use is as ranchland.

Proposed Post Mining Land Use

At the completion of mining and reclamation measures, the proposed post mining land use would be suitable for commercial and/or residential development

Description of Mining Unit and Proposed Disturbances:

The **mining unit** will be located within **parcel # 503-95-002B** on private land comprising the *Eastern ½ of section 9, Township 6 North, Range 2 West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona.*

The **directions** to the mining unit are as follows:

- State Route 74 to milepost 10, North 3.25 miles on paved road to fork, take left fork to site (about 0.4 miles)

The material to be mined will be drilled/blasted when necessary, then loaded and hauled to the plant with front end loaders and/or off-road haul trucks. The raw aggregate is then processed through a crushing and/or screening plant to reduce it to the required sizes and stockpiled as necessary.

The crushing and screening plant will be in the central area of the mining unit, with the stockpile area to the south and west. Mining/excavation will take place mainly in the northwest quarter of section 9. north of the processing plants. We will have a truck scale and scale office, shop area for equipment repair, etc., several storage sheds, a 12,000-gallon fuel tank with spill containment, a well and several 6,000 to 10,000-gallon tanks to store water for dust control.

The **proposed surface disturbances** (see map) would consist of clearing and leveling for processing equipment, stockpiles, maintenance areas, offices, the excavation of raw aggregate for feed material and the equipment travelways between these areas. We will be using an existing road for access.

Utilities:

- Water for dust control is supplied by an on-site well with underground PVC pipe running from the well head to several storage tanks. From there the water is distributed via a water truck.
- Power for the well is supplied by a portable diesel generator and underground power lines
- Power for the rest of the site is provided by portable diesel generators with above ground/overhead power cables

Existing and Proposed Final Topography:

The ***existing*** topography is a hilly desert terrain with the typical small, dry desert washes transecting the area. The ground gradually slopes from a high point in the northern section of approximately 2500' in elevation to the low point in the southern section of about 2270'. Picacho Wash, to the east of the area to be mined, is at an elevation of 2253'.

The ***proposed final topography*** in the southern and central area, where our plants, stockpiles, offices, etc. will be located, should be fairly level without a significant change in elevation from the existing topography. The northern area, where mining will take place, is proposed to be taken down to approximately 2255' or higher in elevation once mining is complete. The excavated area will not be mined in such a way that would leave a pit when completed. The eastern side of the excavated area will be opened up to approximately 12 feet above the existing wash level. Highwalls will be either knocked down and contoured or bermed to meet M.S.H.A. safety regulations.

Measures to Restrict Public Access

The following are measures that will be taken to restrict public access to pits and other surface features that may be a hazard to public safety:

- The public access to the pits will be restricted by 6' berms. Warning notices, danger signs, and reflectors will also be installed every 150' along the edges.

Narrative Description of Roads

Access Road:

The access from Highway 74 to the mining unit will be via an existing, paved road. For the final ½ mile we will be using an existing dirt road with dust control.

Internal Roads:

Internal roads will consist of travelways for equipment around the processing plants, to/from the truck scale, fuel tank, water tanks, shop area, parking area, etc. A haulage road will exist between the quarry and the raw aggregate stockpile/feeding area, initially a short distance, but will need to be extended as the quarry face gets worked back.

Trucks that enter the site will use existing roads and travelways to the loading and scale area.

Reclamation of Roads:

- The landowner may decide to leave some of the roads for post mining land use access.
- All other remaining roads will be ripped/scarified to aid in vegetation establishment and to mitigate erosion.

Acres Affected by Each Type of Surface Disturbance

<u>AREA</u>	<u>ACRES</u>
• Excavation/Mining Area	134 acres
• Process Facilities	32 acres
• Roads	4 acres
• Offices/Parking Areas	1 acre
• Maintenance/Shop Area	2 acres
• Parts, Equipment and Supply Storage	3 acres
• Stockpiles	20 acres

Proposed Reclamation Measures to Achieve Post Mining Land Use

- Upon completion of mining, all equipment and machinery will be removed from the site
- Remaining metal, scrap, debris, etc., will be cleaned up and disposed of properly
- All buildings and structures will be removed
- Remaining stockpiles will be removed or used for fill and leveling
- Highwalls from the excavation of aggregate will be knocked down/sloped as necessary to blend with the surrounding area topography. Slopes will be as close to 3:1 as possible and no steeper than 2:1.
- Compacted ground will be scarified to aid in the regrowth of vegetation unless post mining land use takes place immediately after cessation of mining.

Soil Conservation:

- There is insufficient soil at the site to make recovery practicable. A large portion of the area consists of hard rock/bedrock very close to or exposed at the surface.

Reclamation of Utilities:

- Wells, including plumbing and wiring, will be left intact at the request of the property owner.
- If the property owner decides to remove the well, reclamation will consist of removal of the underground utilities.

Third Party Removal of Equipment, Machinery, Buildings, Structures, Utilities, etc.**(In the event that mining activities cease unexpectedly)**

- Buildings/Structures are owned by Mobile Mini Storage and will be removed by them when necessary.
- Production equipment including conveyors, crushers, and screens along with associated wiring will be removed by buyers provided by Ritchie Bros. Auctions. It is standard procedure that all Ritchie Bros. buyers are responsible for dismantling, loading, and hauling the equipment off site. Mobilization and demobilization are also the responsibility of the buyer. There will be absolutely no cost to the reclamation program for the removal of equipment and machinery.
- Shop structures consist of 4 metal poles and a metal roof. They will be removed and repurposed by a metal structure installation contractor at minimum cost to the reclamation program.

Proposed Schedule for Beginning Surface Disturbance

Portions of the area have been disturbed; additional disturbances will begin sometime in early to Mid-2021.

Proposed Reclamation Timeframe

Mining is planned for up to 20 years or more. Partial reclamation of appropriate areas will take place concurrently with mining in order to substantially minimize reclamation costs. Final reclamation activities will take no more than 60 days.

Estimated Costs for Reclamation

Calculation of Cost Estimates – Final reclamation costs will be minimized due to our mining procedures. Partial reclamation will be taking place concurrently with production operations. The excavated area will not be mined in such a way that would leave a pit when completed. The eastern side of the excavated area will be opened up to approximately 12 feet above the existing wash level.

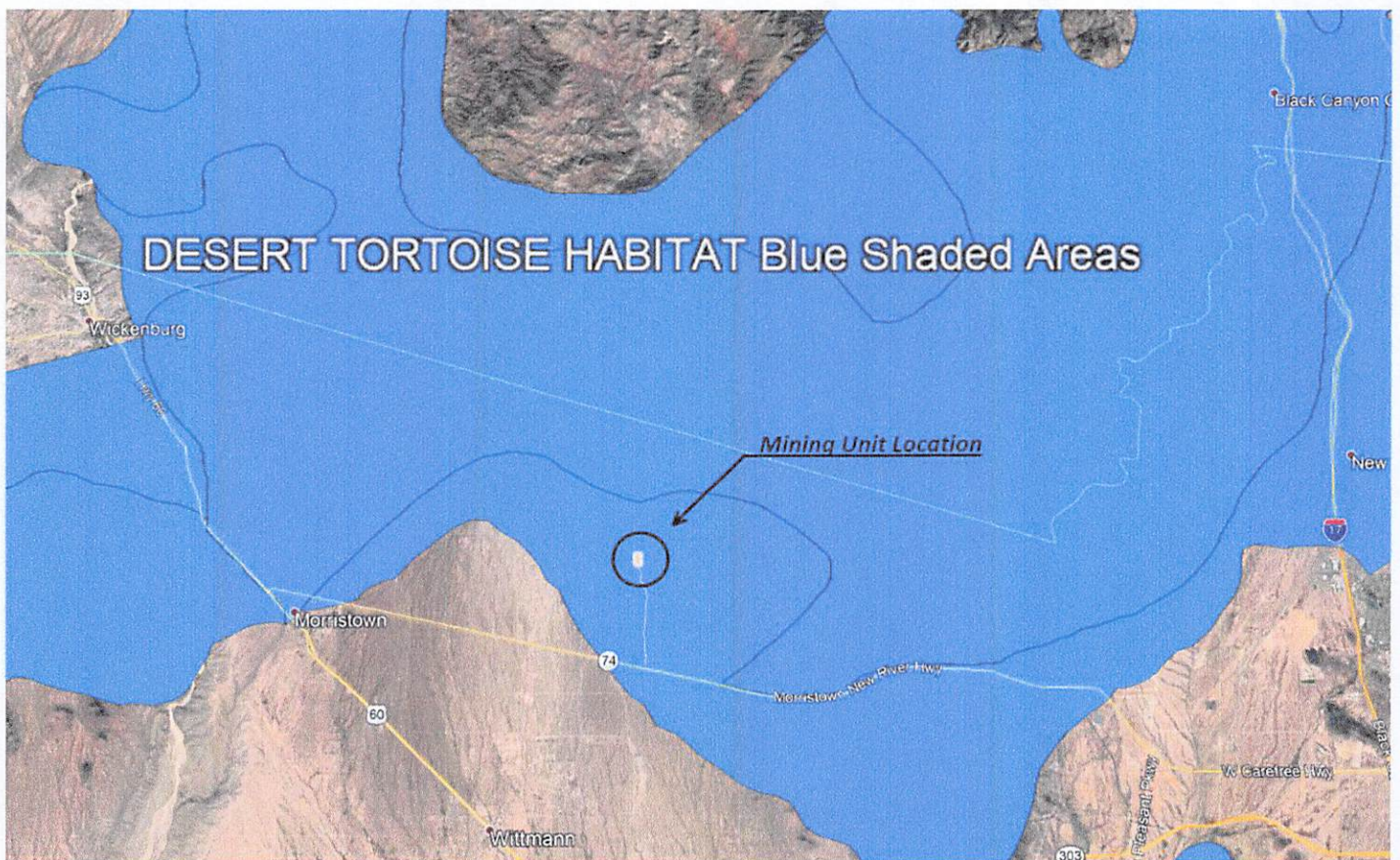
- **Heavy Equipment Operators: 2 operators for 3 weeks @ \$1500 per week each ----- \$9,000**
 - One operator will spend up to two weeks on the ground checking grades and cuts as well as performing maintenance.
 - **Equipment Rental**
 - Front End Loader** (4wd, Diesel, 9 cu. yd., 475 hp): 1 week @ \$5,633 per week -----\$5,633
 - Dozer** (Crawler, Diesel, 410 hp): 1 week @ \$6,528 per week -----\$6,528
 - Rock Drill** (Percussion Hammer, Crawler, 250 hp): 1 week @ \$6,027 per week -----\$6,027
 - Excavator** (Crawler, Diesel, 2.5 cu. yd.): 1 week @ \$4,075 per week -----\$4,075
 - **Fuel and Lube Expense ----- \$3,500**
 - **Blasting (21,500 Tons) ----- \$6,500**
 - **Utilities (removal if necessary) ----- \$4,500**
 - **Third Party Removal of Equipment, Machinery, Structures, Utilities, Etc.----- \$5,500**
 - **Permits ----- \$350**
 - **Administrative Overhead and Contractor Profit ----- \$20,148**
- TOTAL----- \$71,761**

Source of Estimated Costs ----- RS Means current data

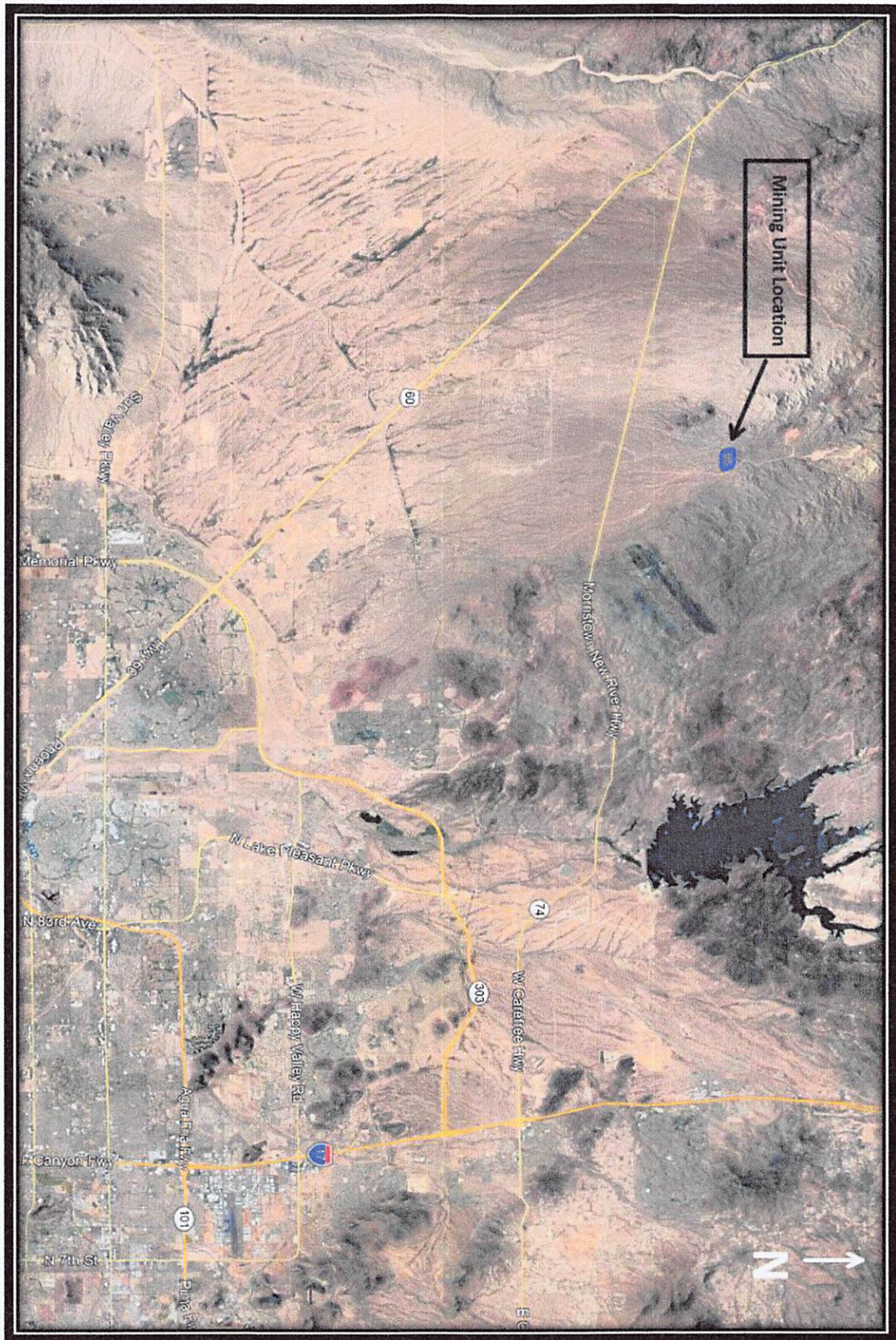
Sonoran Desert Tortoise Wildlife Habitat

Kilauea Crushers has been operating in this general area for 30+ years with no reported sightings or encounters with the Desert Tortoise. Also, during exploration of this particular mining unit, none were encountered.

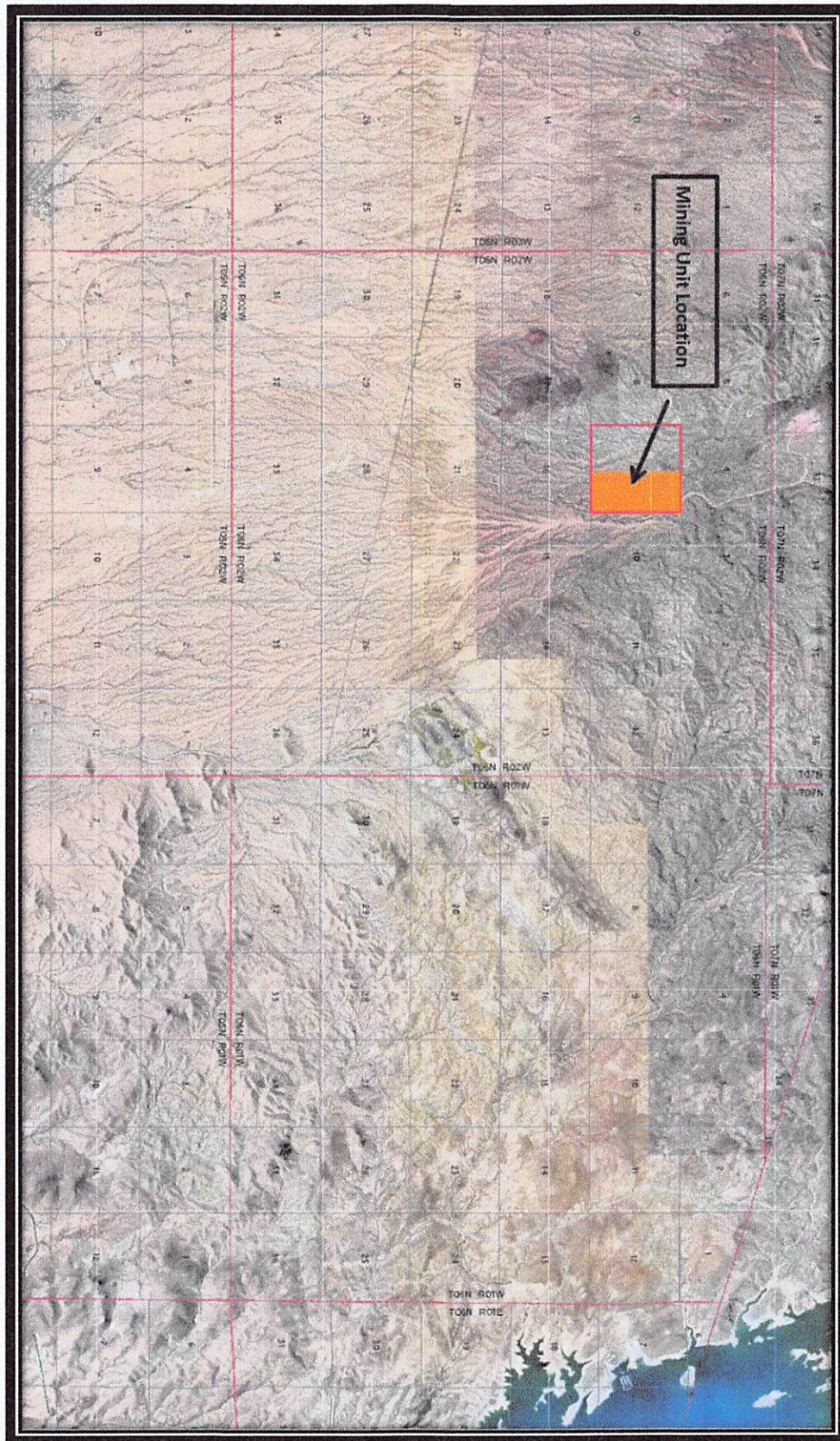
However, if a Sonoran Desert Tortoise is encountered, company personnel will refer to The Arizona Game and Fish Departments " Guidelines for Handling Sonoran Desert Tortoises Encountered on Development Projects " to reduce the potential impact on the species



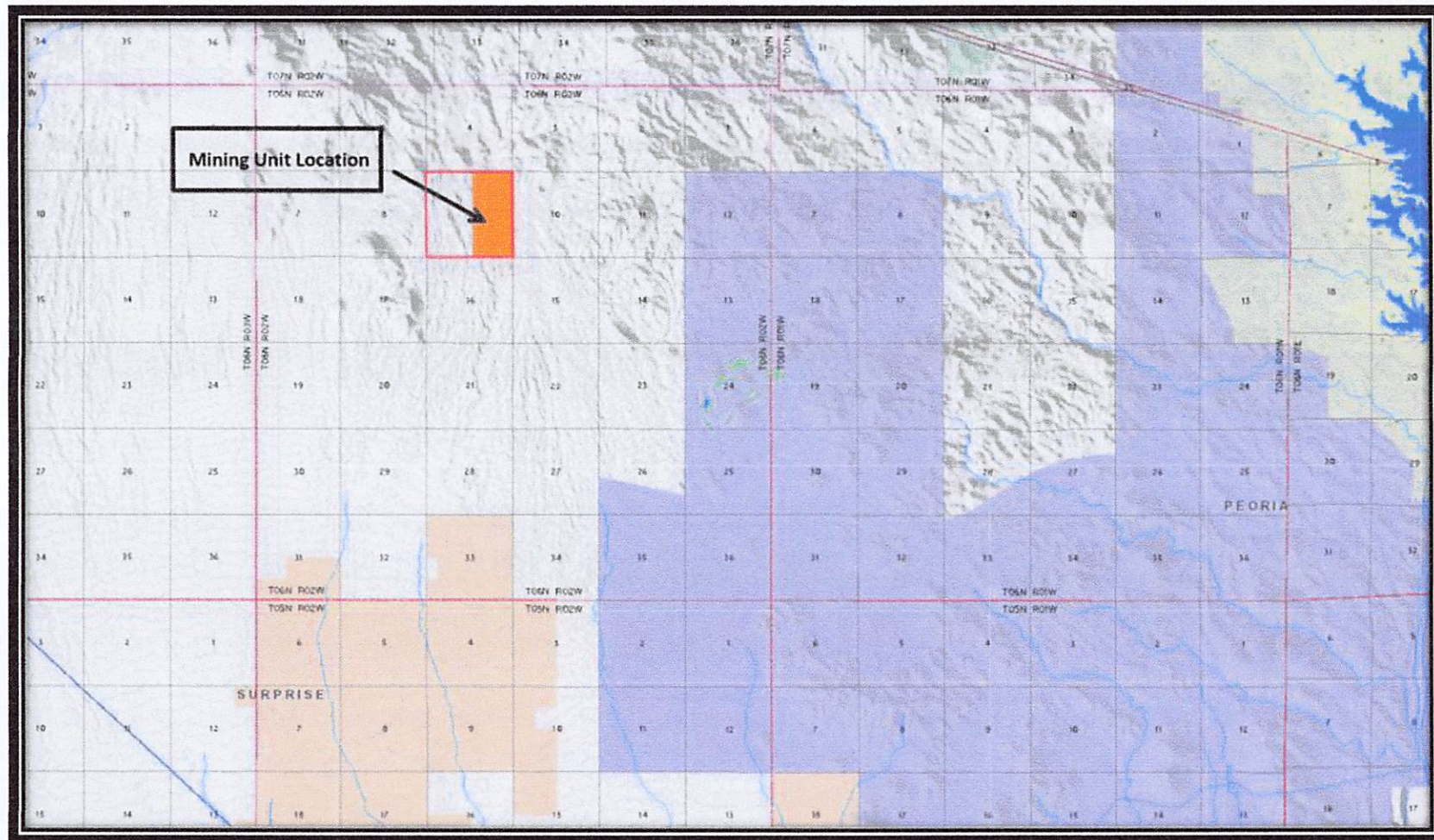
Mining Unit Location Map



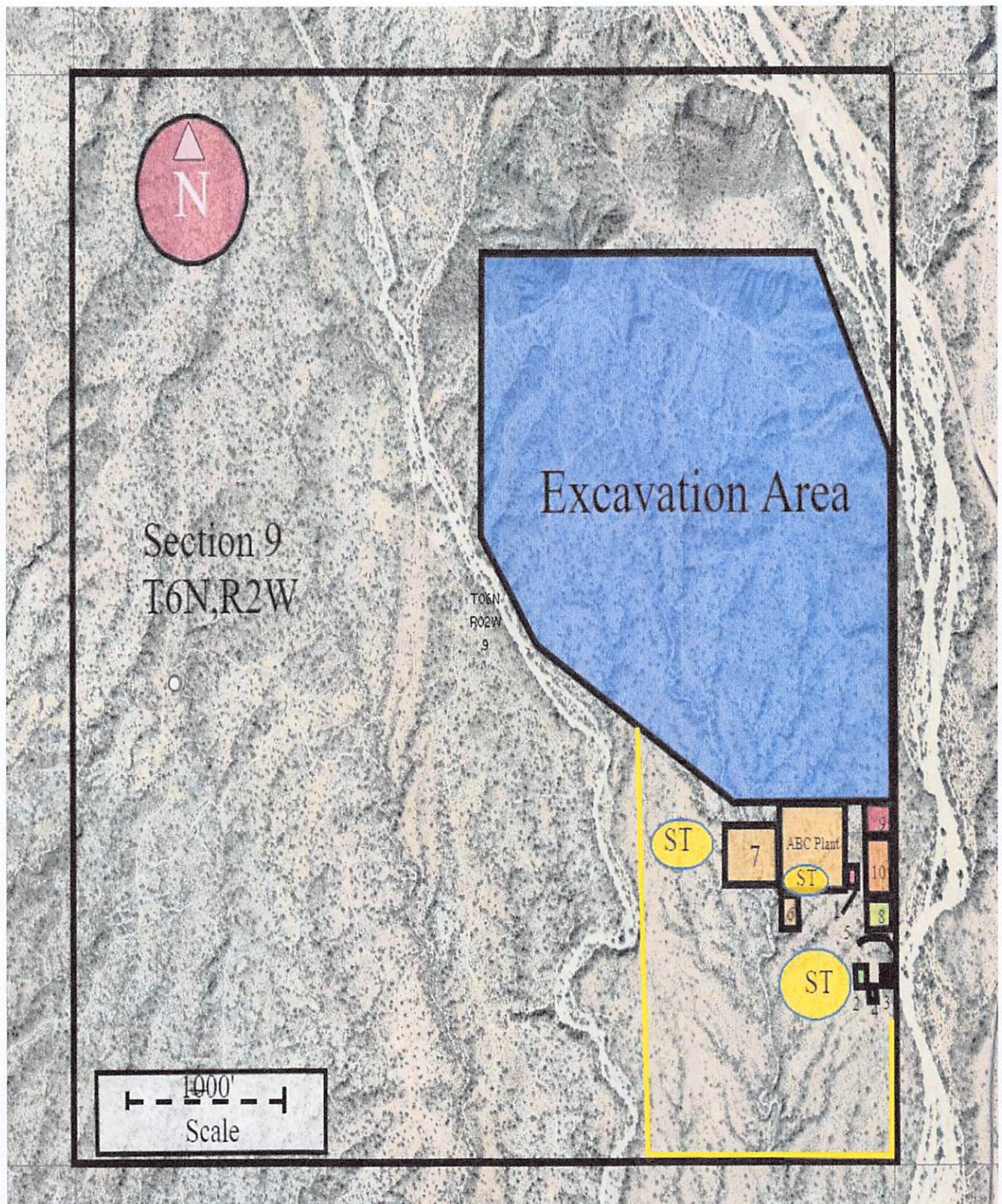
Mining Unit Location Map



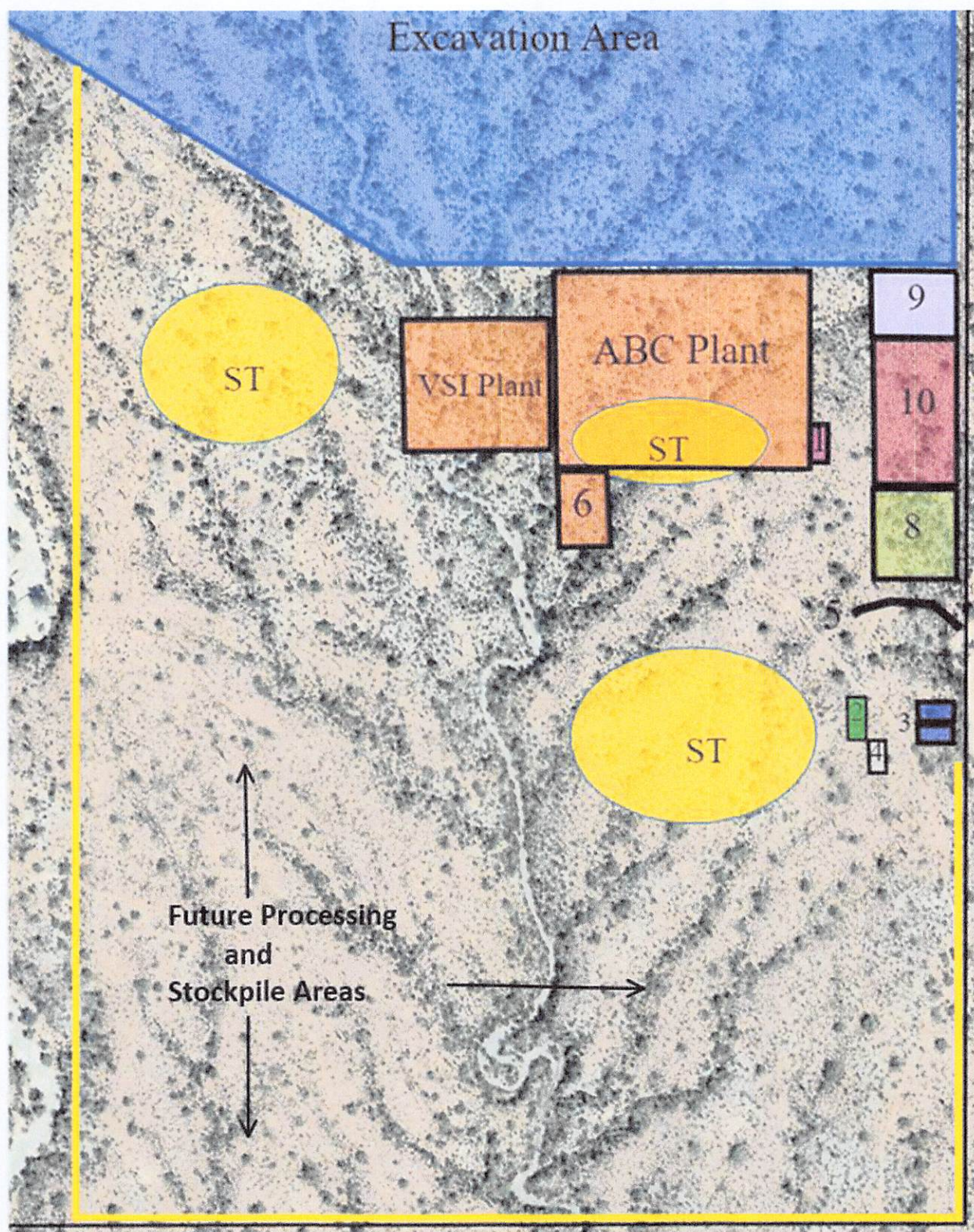
Mining Unit Location Map



Disturbed Area Map



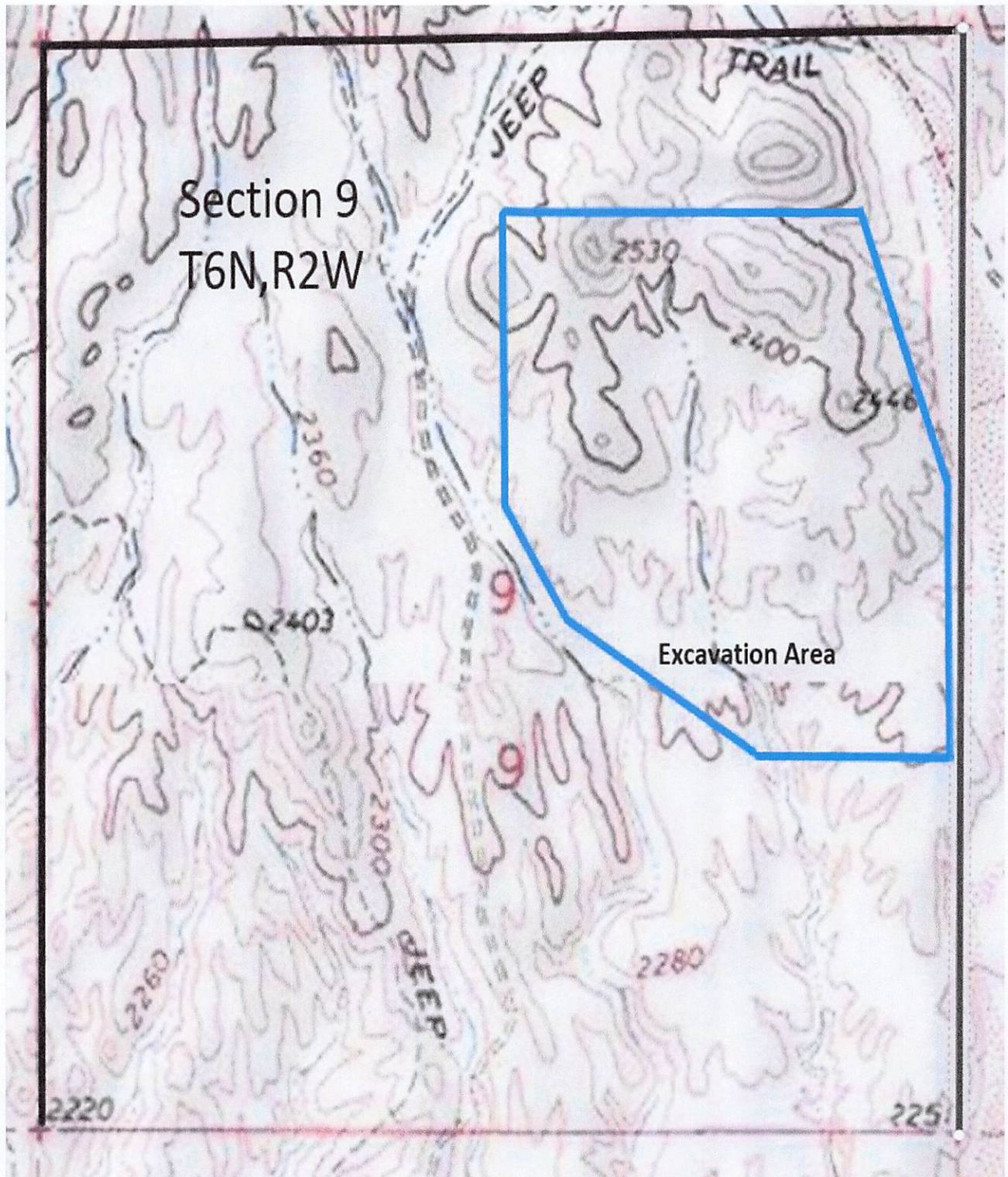
Disturbed Area Map



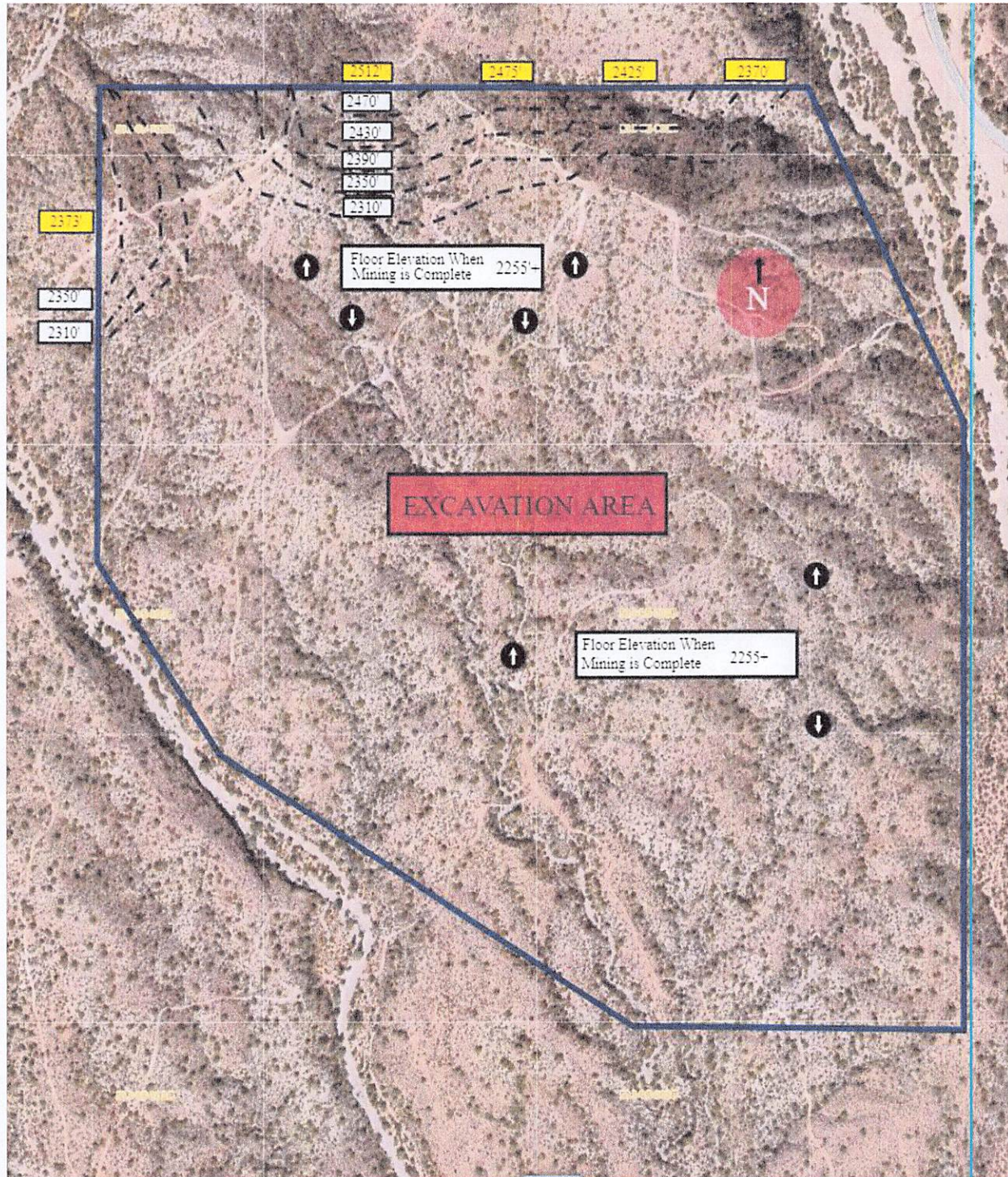
Disturbed Area

<u>Designation</u>	<u>Description</u>
<i>1</i>	<i>Fuel Tank w/ Containment</i>
<i>2</i>	<i>Truck Scale</i>
<i>3</i>	<i>Water Storage Tanks</i>
<i>4</i>	<i>Scale Office</i>
<i>5</i>	<i>Entrance</i>
<i>6</i>	<i>Screening Plant</i>
<i>7</i>	<i>VSI Plant</i>
<i>8</i>	<i>Parking</i>
<i>9</i>	<i>Parts Storage</i>
<i>10</i>	<i>Shop</i>
<i>ST</i>	<i>Stockpile Area</i>

Existing Topography



Final Elevation Map



Final Elevation Map

